

# Attachment G: Analysis of Best Available Control Technology (BACT)

(Complete this form for each pollutant for which BACT must be incorporated. Duplicate this form as necessary.)

Complete this form in accordance with the [instructions](#) (DEEP-NSR-INST-214) to ensure the proper handling of your application. Print or type unless otherwise noted.

**Applicant Name:** \_\_\_\_\_

**Unit No.:** \_\_\_\_\_

**Unit Description:** \_\_\_\_\_

**Pollutant:** \_\_\_\_\_

## Part I. Identify All Control Technologies/ Options

List all available control systems that have practical potential for application to this type of unit.

To ensure a sufficiently broad and comprehensive search of control alternatives, references other than the RBLC data should be investigated and documented. These references include: DEEP BACT Database, EPA/State air quality permits, control equipment vendors, trade associations, international agencies or companies, technical papers or journals.

Source	Facility	Control Technology	Reference

**Part II. Rank All Control Options by Technical Feasibility and Control Effectiveness**

List all Control Options considered in Part I and identify which options are technically feasible. First list the technically feasible control options in descending order of Overall Pollution Reduction Efficiency and then list the technically infeasible options. If a control option is determined to be technically infeasible, specify the reason in the Comments/Rationale column. DO NOT list the Post-BACT Emissions Rate, Emissions Reduction, and the Overall Pollution Reduction Efficiency (%) for technically infeasible control options. Technically infeasibility should be based on physical, chemical, and engineering principles that would preclude the successful use of the control option on the emissions unit under review. In addition, complete *Attachment G1: Background Search – Existing BACT determinations (DEEP-NSR-APP-214b)* to provide more detailed information regarding each of the technically feasible options listed below. (Duplicate this page as necessary)

**Baseline Emissions Rate (tpy):**

BACT Option	Technically Feasible? (Yes/No)	Allowable Emissions Rate	Emissions Reduction (tpy)	Overall Pollution Reduction Efficiency (%)	Comments/Rationale

**Part III. Economic Impacts/Cost Effectiveness**

Is the proposed BACT the top control option  Yes  No If Yes, go to Part IV

Complete *Attachment G2: Cost/Economic Impact Analysis*, DEEP-NSR-APP-214c for each technically feasible BACT options listed in Part II for which economic impacts are to be considered before filling this Part.

Provide the following economic information for each of the BACT options with completed *Attachment G2: Cost/Economic Impact Analysis*, DEEP-NSR-APP-214c.

BACT Option	Total Annualized Cost (TAC, \$/year)	Cost Effectiveness (\$/ton)		Comments/Rationale
		Average	Incremental (optional)	

**Part IV. Environmental Impact Analysis**

Provide the following information regarding environmental impacts for each of the technically feasible BACT options listed in Part II. If the BACT option chosen is the top control option, the environmental impact analysis should be done for that option only.

BACT Option	Toxics Impact		Adverse Impact		Comments/Rationale
	Yes/No	amount/ton	Yes/No	amount/ton	

## Part V. Energy Impact Analysis

Provide the following information regarding energy impacts for each of the technically feasible BACT options listed in Part II. If the BACT option chosen is the top control option, the energy impact analysis should be done for that option only.

**Baseline (specify units):**

BACT Option	Incremental Increase Over Baseline (specify units)	Comments/Rationale

## Part VI. BACT Recommendation

**BACT Option Recommended:**

**Justification:**

## Part VII. Additional Forms/Attachments

Indicate the number of each type of form included as part of this BACT analysis.

Number of Forms	Form Number	Form Name	Mandatory?
	DEEP-NSR-APP-214b	Attachment G1: Background Search – Existing BACT Determinations	Yes
	DEEP-NSR-APP-214c	Attachment G2: Cost/Economic Impact Analysis	Yes, for each economic consideration
	DEEP-NSR-APP-214d	Attachment G3: Summary of Best Available Control Technology	Yes

**Additional Attachments:**